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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/885,092	06/21/2001	Renato Caretta	07040.0089	3921
	590 09/03/2003 HENDER CON EAR A	DOW CARREST A SEC.		7
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP			EXAMINER	
1300 I STREET, NW			FISCHER, JUSTIN R	
WASHINGTO	N, DC 20005			
			ART UNIT	PAPER NUMBER
			1733	
			DATE MAILED: 09/03/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

			AST
	Application No.	Applicant(s)	
	09/885,092	CARETTA ET AL.	
Office Action Summary	Examin r	Art Unit	
	Justin R Fischer	1733	<u>-</u>
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet wi	th th correspondenc address	
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a re  - If NO period for reply is specified above, the maximum statutory perior  - Failure to reply within the set or extended period for reply will, by statu  - Any reply received by the Office later than three months after the mailite earned patent term adjustment. See 37 CFR 1.704(b).  Status	l. 136(a). In no event, however, may a reply within the statutory minimum of third will apply and will expire SIX (6) MON ate, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communicati ANDONED (35 U.S.C. § 133).	on.
1) Responsive to communication(s) filed on <u>01</u>	<u>July 2003</u> .		
2a)☐ This action is <b>FINAL</b> . 2b)⊠ T	This action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice unde Disposition of Claims			sis
4) Claim(s) 30-59 is/are pending in the applicat	tion.		
4a) Of the above claim(s) 44-59 is/are withdra	awn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>30-33,35 and 37</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examir	ner.		
10)⊠ The drawing(s) filed on 21 June 2001 is/are: a	a)⊠ accepted or b)□ objected	to by the Examiner.	
Applicant may not request that any objection to t			
11) The proposed drawing correction filed on	is: a)□ approved b)□ d	isapproved by the Examiner.	
If approved, corrected drawings are required in r	• •		
12)☐ The oath or declaration is objected to by the E	xaminer.		
Priority under 35 U.S.C. §§ 119 and 120			
13)⊠ Acknowledgment is made of a claim for forei	gn priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a)⊠ All b)□ Some * c)□ None of:		,	
<ol> <li>Certified copies of the priority document</li> </ol>	nts have been received.		
2. Certified copies of the priority document	nts have been received in A	pplication No	
<ul> <li>3. Copies of the certified copies of the pri application from the International B</li> <li>* See the attached detailed Office action for a list</li> </ul>	Bureau (PCT Rule 17.2(a)).		
14)☐ Acknowledgment is made of a claim for domes	·		tion).
a) ☐ The translation of the foreign language p 15)☒ Acknowledgment is made of a claim for domes	rovisional application has be	een received.	,
Attachment(s)	p, and a a a.a.a.	· · · · · · · · · · · · · · · · · · ·	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of I	Summary (PTO-413) Paper No(s) nformal Patent Application (PTO-152)	

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#### **DETAILED ACTION**

### Election/Restrictions

1. Applicant's election with traverse of a method of forming a carcass structure (Invention I) in Paper No. 6 is acknowledged. The traversal is on the ground(s) that the search and examination of the entire application can be made without serious burden. This is not found persuasive because the manner in which tire components are laid up is a significant feature in the relevant tire building method. In particular, the use of a toroidal support versus a forming drum, for example, represents a materially different method for manufacture of the same carcass structure, it being recognized that toroidal supports and forming drums represent unique and separate means for laying up tire components.

The requirement is still deemed proper and is therefore made FINAL.

# Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 30-33, 35, and 37 are rejected under 35 U.S.C. 102(b) as being anticipated by Dickinson (US 1,728,957). As best depicted in Figure 2, Dickinson (Page 4, Line 115 Page 5, Line 18) discloses a method of manufacturing a carcass structure for vehicle tires comprising the steps of depositing a plurality of elongated sections or strips extending in a U-shaped configuration on a mandrel (toroidal support)

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to define two side portions and one crown portion and applying annular reinforcing structures (beads) to a region close to the inner circumferential edges of said carcass, wherein each of said elongated sections are disposed angularly of the axis of the toroidal support (analogous to being laid down in a plane parallelly offset relative to a meridian plane of the toroidal support).

Regarding claim 31, the elongated sections of Dickinson pass through the transition regions (shoulder regions), such that the respective side portions are disposed at an inclined angle with respect to the reference plane.

With respect to claims 32 and 33, Dickinson describes the arrangement of a first layer and a second layer, wherein each of the layers is formed by the deposition of elongated sections or strips. The reference further teaches that the second layer is angularly disposed of the first layer, such that a crossed orientation is formed.

With respect to claim 35, Dickinson teaches that the elongated sections or strips, which contain parallel thread element covered by rubber, are positioned side by side in lateral abutting relation. This description is seen to constitute "a circumferential pitch corresponding to <u>a multiple of a width</u> of the elongated sections" since this language does not positively require any spacing between adjacent elongated sections of the first layer. This is different from claim 34 in which the circumferential pitch is defined as <u>at</u> <u>least twice</u> the width of the elongated sections.

Regarding claim 37, the method of Dickinson comprises the arrangement of a bead against the elongated sections or strips of the first carcass ply (first layer) and the subsequent arrangement of a second carcass ply (second layer) formed of elongated

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sections or strips. As clearly depicted in Figure 42, the elongated sections or strips that define the second carcass ply 467 are arranged in a down configuration, such that the elongated sections of the first and second layer are arranged on axially opposite sides of the bead. It is noted that the beads of Dickinson are being viewed as a first primary portion of the annular reinforcing structure.

## Allowable Subject Matter

4. Claims 34, 36, and 38-43 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

As to claim 34, Dickinson fails to suggest that the elongated sections or strips are laid down at a circumferential pitch corresponding to at least twice the width of the elongated sections of the first layer (allows for creation of spaces to dispose elongated sections of second layer).

Regarding claim 36, Dickinson fails to suggest a construction in which elongated sections are disposed in a side by side relationship, wherein the side portions of the elongated sections are partly covered by the side portions of an adjacent elongated section.

With respect to claims 38-41, while Dickinson suggests that a plurality of carcass layers can be formed, the reference fails to describe the arrangement of a second annular reinforcing structure between the side portions of a third and fourth layer of elongated sections.

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Regarding claims 42 and 43, the annular reinforcing structure or bead of Dickinson is not disclosed as being formed by arranging an element of concentric coils (annular insert) and joining at least one filling body to said annular insert. This is a unique method of forming of an annular reinforcing structure that would not have been obvious to one of ordinary skill in the art at the time of the invention.

### Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Justin R Fischer** whose telephone number is **(703) 605-4397**. The examiner can normally be reached on M-F (7:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Ball can be reached on (703) 308-2058. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Justin Fischer

August 29, 2003

Michael W. Ball
Supervisory Patent Examiner
Technology Center 1700